# CAMPUS MASTER PLAN

Cascadia Community College & The University of Washington - Bothell

at Truly Farms - Stringtown



-Washington Higher Education Coordinating Board in Association with NBBJ

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# CAMPUS MASTER PLAN

Cascadia Community College & The University of Washington - Bothell

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Introduction

INTRODUCTION

Washington-Bothell and Cascadia Community College Collocated Campus will respond Higher Education Coordinating Board (HECB), the development of the University of County will need better access to higher education and work training. As the new century approaches, residents of north King County and south Snohomish Guided by the

the Master Plan were only possible with the energies of those dedicated people. Washington and Cascadia Community College. The myriad tasks involved in developing citizens, public officials, community leaders, and representatives from the University of This Master Plan document is the culmination of a 14-month effort by many involved Critically important were the Project Coordination Team and the Site Development Advisory Group.

planning activities. The group was created at the onset of the project, chaired by HECB The Project Coordination Team assisted the HECB, providing oversight of project

planning activities. The group was created at the onset of the project, chaired staff, and met regularly on a monthly basis. Members included:

Ron Bell - President, Shoreline Community College
Mike Bigelow - Senior Budget Assistant, Office of Financial Management Joe Brawley - University of Washington
John Fricke - Senior Budget Assistant, Office of Financial Management
Dave Habura - President, Cascadia Community College
Bill Julius - State Board for Community & Technical Colleges
Jim Reed - Associate Director, Higher Education Coordinating Board

Norm Rose - Dean, University of Washington-Bothell

Project Coordination Team

## Site Development Advisory Group

environmental protection, and post-secondary education needs. Members included sensitive manner. The group included individuals who are interested in civic planning The Site Development Advisory Group was created to assist in the realization of the two underlying goals of the project: a functional campus developed in an environmentally

Anne Aagaard, Bothell resident
Paul Cowles, Bothell resident
Bill Dues, State Department of Transportation
Bud Erickson, Bothell resident
Bob Everitt, State Department of Wildlife
Ray Hellwig, State Department of Ecology
Peter Hurley, Washington Environmental Council
Ted Pankowski, Woodinville-resident
Brent Russel, Community Transit
Lynwood Smith, Professor Emeritus, University of Washington
Dick Truly, Bothell resident
Bill Wiselogle, City of Bothell
Mike Bergman, Metro

Public Involvement

The Master Plan effort also included significant public involvement:

- A downtown Bothell storefront office open to the public for 90 days during the concept development stage
- Five newsletters to a mailing list of approximately 1,000 people
- Three major public meetings



development. Other major related documents include: The Master Plan is part of a family of documents describing the collocated campus -Documentation

- Draft Environmental Impact Statement June 1995
- Final Environmental Impact September 1995
- City of Bothell Planned Unit Development August 1995
- Shoreline Substantial Development and Shoreline Conditional Use Permit August 1995
- U.S. Corps of Engineers 404 Individual Permit September 1995
- Federal Emergency Management Agency Conditional Letter of Map Revision
- Washington State Department of Ecology Hydraulic Project Approval

### COLLOCATION HISTORY

extensive educational needs analysis, site evaluations, and environmental reviews. and Cascadia Community College (UWB/CCC) collocated campus was based on Selection of the Truly Farms-Stringtown site for the University of Washington-Bothel

statement led the University to select the Wellington Hills site as the preferred branch Bothell/Woodinville area. A comparative site selection study and environmental impact upper division baccalaureate education within the State of Washington. In 1989, the Education Coordinating Board (HECB) identified insufficient and inequitable access to University of Washington and that one of the branches be located Legislature authorized creation of two branch campuses under the direction of the The need for a higher educational facility was established in 1987 when the Higher

area of north King County and south Snohomish County as the area with the greatest community college. analysis led the SBCTC to select the Truly Farm site as the preferred site for the new In 1990, the State Board of Community and Technical Colleges (SBCTC) identified the recent growth in population and the least access to a community college. A comparative

acquire (pending securing of all required regulatory permits/approvals) the site for the Stringtown site as the preferred site. In 1994, the legislature authorized the HECB to study, led to the HECB recommendation that the new community college should be new campus and to undertake campus planning activities evaluated three potential sites for the collocated campus and identified the Truly Farmscollocated with the University of Washington-Bothell branch campus. higher education and work force training in the same geographic area. In 1993 the Legislature directed the HECB to evaluate alternative models for delivering A final study The resulting

STATE GOALS FOR CAMPUS DEVELOPMENT

major tasks: development of the collocated campus. Achieving this objective involves the following The State's near-term goal is to complete the site acquisition phase of the collocation The objective of the site acquisition phase is to purchase property for the

- Preparation of a collocation master plan program: defining the role and mission the year 2010, and a description of student support services to be provided at the discipline areas, description of planned or contemplated program offerings through agreement, anticipating student enrollments and staffing levels in program or statements of the participating institutions, developing a joint planning and operating
- Development of a campus space program and site plan.
- Development of a phasing plan and Phase I description.
- Coordination of all actions and procedures associated with all required regulatory studies, reviews and approvals including, but not limited to, SEPA process, Corps of Engineers permits, Shoreline conditional use permits, and others.

used as a policy guide in preparation of the Campus Master Plan: and preservation, and public use. Truly Farms-Stringtown site: expanded educational access, environmental enhancement The State recognizes the importance of addressing multiple public policy goals at the Therefore, the following statement of philosophy was

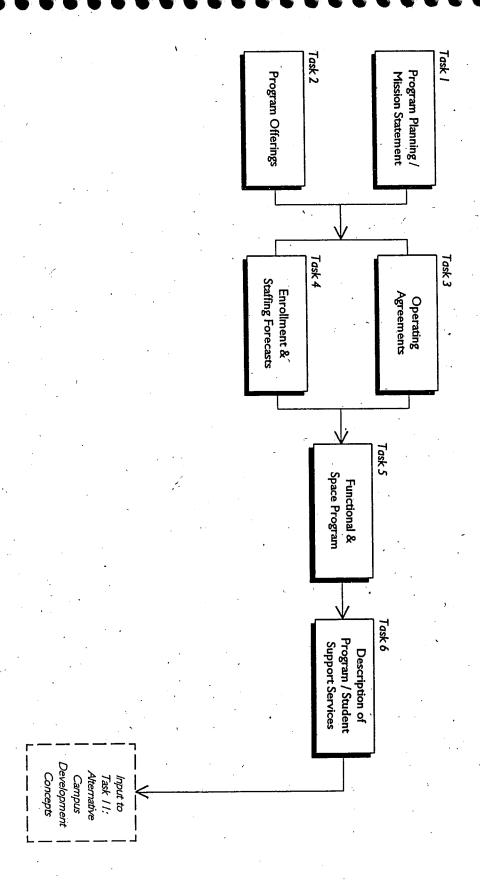
To achieve the anticipated benefits of the collocation of Cascadia Community College and the University of Washington-Bothell branch on the Truly Farms-Stringtown site:

"A successful Campus Master Plan will advance a site development strategy that meets educational goals and creatively addresses environmental opportunities and constraints of the site."

#### PLANNING PROCESS

and views and brainstorming ideas. It is an intensive, creative analytical process that proved its considerable worth in this effort. student drawings and models at project deadlines at the Ecole, des Beaux Arts in Paris. to communicate interactively. In the 19th Century, a charrette was a cart used to collect process was the use of work sessions or "charrettes" that allowed project team members Each required a significant amount of effort by all participants. A key ingredient of the Truly Farms-Stringtown Site Master Plan, and the Regulatory Reviews and Approvals. The planning process involved the three major components; the Plan for Collocation, the That design-related collection effort has evolved into a modern method of collecting data

Campus Master Plan. The following pages detail the process for each of the three major components of the



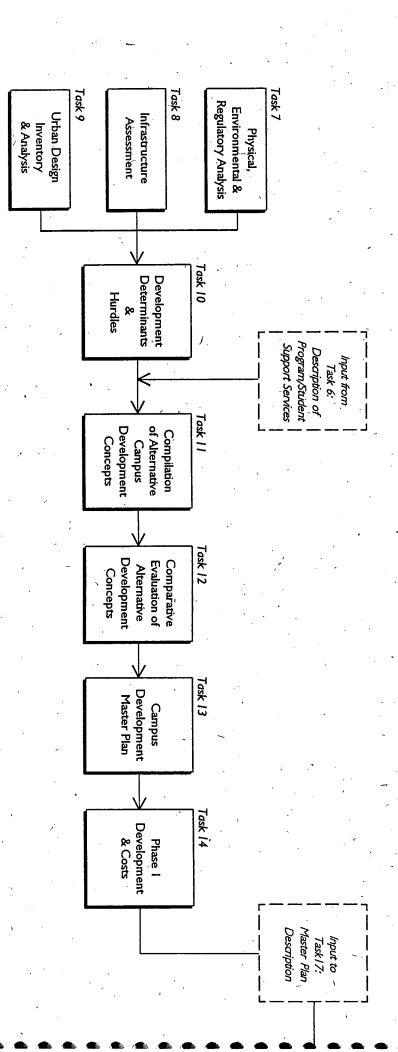
Partnering Program /
Charrette Mission
Charrette

Operating Enrollment
Agreement Charrette
Charrette

Space Program Charrettes

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# TRULY FARM-STRINGTOWN SITE MASTER PLAN



Development Potentials & **Constraints Charrette** 

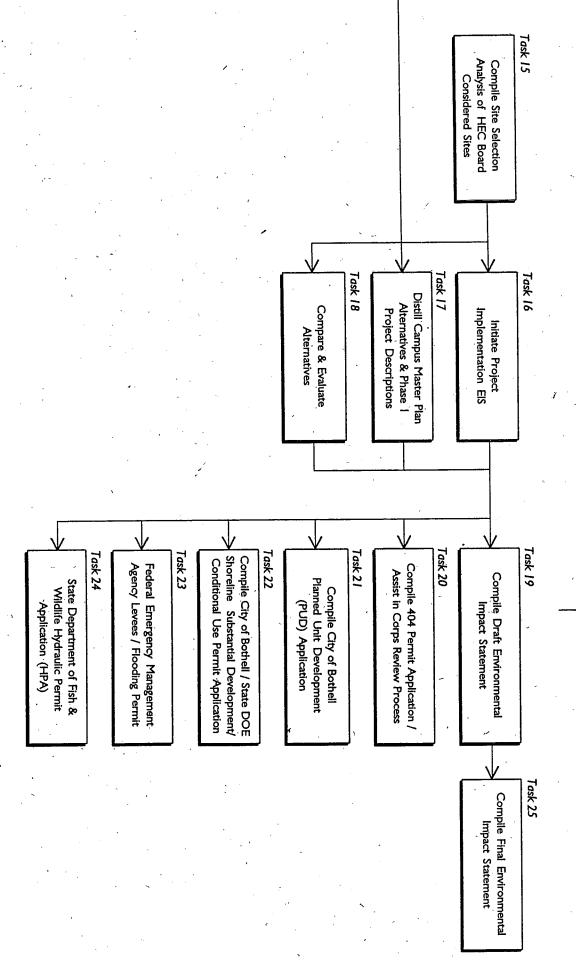
Determinants Charrette

Development Charrettes & Concepts

**Public Meetings** 

Public Meetings Comparative Evaluation Charrette &

Stringtown Site Master Plan Truly Farm-



### MASTER PLAN GOALS

Bothell's Four Year Plan and Mission were incorporated principles were developed during planning charrettes, and goals described in the City of Council, and Site Development Advisory Group members. Goals for the Master Plan were developed by community citizens, the Bothell City Precepts and guiding

#### Community Goals

- Complement the "hometown" feel of downtown Botheil, rather than the "high-tech" feel of the North Creek Valley business parks.
- Achieve a distinctive appearance without being a stand-alone architectural statement.
- than that of North Seattle Community College, for example. Strive towards a design that more closely approximates the UW main campus rather
- facilities, academic programs, and activities Maximize ways in which the campus invites interaction with the community, through
- Serve the campus with a wide variety of easily accessible transportation modes.
- Locate transit stops as close to buildings as possible.
- using natural features as laboratories. construction of the campus, and subsequently in academic programs. Take advantage of natural resources and amenities on site, both in design and For example,
- Promote formal economic development connections with the business community.
- Create one sense of place and assure a balanced treatment of each institutions' identity.
- Provide places for informal interaction among faculty, students and staff.
- Reinforce and strengthen the natural features of the site.
- Link hillside to lowland area through trees and building placement.

- Provide clarity in wayfinding and security in campus circulation.
- Assure parking convenience.
- Combine existing grid of the community street system with the topography of the
- Retain 180th/Valley View as an organizing element of the campus plan.
- Reflect and respect historical aspects of the built environment, both on- and off-site (e.g., the cemetery, Stringtown).
- Protect those attributes that make Bothell unique and set it apart from Bellevue. More specifically, Bothell has several distinct activity centers including the high tech corridor, the downtown, significant natural areas such as the Sammamish River, and active neighborhoods.
- the campus might manifest the hydrology and the geology of the region purpose regarding responsive human use of the forest and the open space. Equally, Respect the natural features of the site, such that the campus serves a pedagogical
- Restore wetland and stream ecosystem functions to more natural, complex and self-sustaining conditions. Target wetland functions by increasing wetlands: hydrology biochemistry, plant communities, and fish and fauna support and habitat.
- Design stream and wetlands mitigation to keep pace with and/or leap ahead of impacts associated with campus development and watershed urbanization.
- Integrate campus and natural resource functions; encourage respect for natural resources and create public access to the site, including recreation and environmental education activities.
- Balance environmental protection and public access to stream and wetlands ecosystem.
- Maximize retention of forested upland.

Environmental Goals

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- needs, but not to encumber the "idealized" learning environment. Commercial activity on the site shall be located and designed to serve the student
- The information and resource area or library is the central focus of the campus.
- conversations throughout the campus. sense of community and provide space for both school gatherings and one-on-one The university buildings define a hierarchy of common open spaces that foster a
- to attract and keep faculty and students. The campus embodies a sense of permanence and quality of architecture that helps
- Facilities need to be highly flexible and adaptable to changing demands.
- Phasing assures the campus has a sense of completeness at any point in its development.

of Washington be collocated. part, that Cascadia Community College and the Bothell branch campus of the University authorized the creation of Cascadia Community College. This authorization specified, in-In 1994 the Washington State Legislature, upon recommendations by the HECB

definition of the Plan for Collocation. The elements of that definition include: The Campus Master Plan and Environmental Enhancement Program began with a

- The role and mission for each institution
- Preliminary descriptions of operating agreements between them
- The unmet education needs the two institutions will accommodate
- The blend of program offerings responsive to the unmet needs
- Estimates of functional and space program needs
- Descriptions of student support spaces, including role of technology on campus
- student success. This requires that the members of the branch campus community campus's work. be of the highest quality and maintain the highest standards in all phases of the branch Provide educational programs that meet high academic standards while fostering
- Provide academic programs designed to respond to the educational needs of a diverse population that includes employed commuting adults beyond the traditional college age. At the undergraduate level, the curriculum is comprised of upper division courses of study.
- Build and maintain strong ties with regional industries, businesses, civic agencies, organizations and other educational institutions, including neighboring community colleges, in order to satisfy the higher education needs of the central Puget Sound region. The branch campus is committed to serving the full range of ethnic, social, and economic groups that comprise the area's population.

#### ROLES & MISSIONS

Collocation Agreements

University of Washington-Bothell (UWB)

The role and mission of Cascadia Community College have not been formally adopted community college compiled the following "working" or informal statement: The private sector group that assisted in the site selection effort for the new eastside

education programs and services, which will be of the highest quality and accessible to al community services that are complementary to those of other regional colleges. to teaching excellence, will serve the lifelong learning needs of its citizens through who want to learn. The college, through its open-door policy and strong commitment The new community college will provide its dynamic communities comprehensive Community College: fulfilling that mission, the following goals have also been identified for Cascadia of academic transfer, occupational training, remedial education,

- support services, and to provide relevant educational experience so that all students achieve their goals. To commit the necessary resources to assure excellence in teaching, counseling, and
- respect cultural diversity and individual dignity. To create a social environment so that all will be conscious of, recognize, value, and
- assessment and counseling, and to the college and student jointly responsive for their monitor the progress of each student's course of study through individualized progress. To develop a relevant and innovative curriculum for students who desire to learn, to
- why how and where students learn. To lead in the utilization of new teaching, and communication technology that impact
- work torce. To prepare students to be adaptable, productive, and immediate members of the
- needs of a changing and diverse population. To develop flexible and responsive educational opportunities to meet the varied

- To achieve effective liaison among faculty and staff of regional colleges, to serve as a bridge between secondary schools, Lake Washington Technical College, and the UW Bothell Branch Campus.
- To foster partnership in cooperation with high-technology industries for access to state-of-the-art equipment, facilities, and expertise.
- To provide resources for professional development of faculty, staff, and management that is consistent with the high standard of excellence expected of them.
- To hold the faculty and administration publicly accountable for the achievement of the student and faculty by developing outcome-based programs that will demonstrate their success.
- To demonstrate evidence of sound institutional planning, efficient management, and achievement of college goals.

#### CAMPUS PROGRAM

of approximately 7,400 individuals on the campus at one time. individuals (including students, faculty, staff and visitors) with a projected peak population capacity of 10,000 full-time equivalents. This translates into approximately 20,000 The proposed campus will be developed in numerous phases, with an eventual student

subject to future legislative appropriations; however, full build-out of the campus is not Approximately 1.2 million gross square feet of buildings and 4,200 parking spaces are planned to accommodate this enrollment level. The schedule of this development will be

anticipated any earlier than the year 2010.

Square Footage Breakdown for UWB/CCC Campus

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Total	l eaching/Laboratory Buildings	Daycare " 1	Gym	Physical Plant	Performing Arts	Student Services	Library	Classroom/Office Buildings	Space Type
1,143,800	270,000	53,800	34,600	54,500	30,800	146,100	168,300	377,100	Approximate Gross Square Feet
100%	· [2	. 5	ı iu	, (A	2	- <del>-</del> -		33	% of Total Space

A unique consideration of this collocated campus is the shared space, providing benefits to both institutions. A preliminary breakdown of these spaces by level of commonality is

Shared Spaces

listed below. This informati refinement of the campus sp nature of their commonality.	listed below. This information was used for master planning considerations; further refinement of the campus space program will better define the shared spaces and the nature of their commonality.	or master planning co vill better define the :	listed below. This information was used for master planning considerations; further refinement of the campus space program will better define the shared spaces and the nature of their commonality.	* .
Common Facilities	Joint Simultaneous Use	Coordinated Use	Dedicated Facilities	Space Cat
• Library	• Admissions	<ul> <li>Assembly/</li> </ul>	<ul> <li>Administration</li> </ul>	
<ul> <li>Computer Labs</li> </ul>	<ul> <li>Advising</li> </ul>	<ul> <li>Performing Arts</li> </ul>	<ul> <li>Computer Labs</li> </ul>	
(some)	<ul> <li>Financial Aid</li> </ul>	<ul> <li>Classrooms</li> </ul>	Classrooms	-
<ul> <li>Transfer Center</li> </ul>	<ul> <li>Registration</li> </ul>	(some)	(some)	
<ul> <li>Multimedia Centers</li> </ul>	<ul> <li>Career &amp; Placement</li> </ul>		Multimedia (some)	
(some)	<ul> <li>Counseling</li> </ul>		<ul> <li>Faculty Offices</li> </ul>	
<ul> <li>Child Care</li> </ul>		-	Academic	
<ul> <li>Security</li> </ul>			Advising	
<ul> <li>Maintenance/</li> </ul>			<ul> <li>Writing Center</li> </ul>	
<ul> <li>Central Plant</li> </ul>			•.	

Parking Student Center/

Union **Book Store** 

Copy Center
Personal Counseling
Food Services

Health Care News & Sundries

ategories for UWB/CCC Campus

Technology Impact on Space Requirements

- institution. Common facilities have minimal or no assignment of space to one or the other
- are guided to services of one or the other institution. identities and space may exist within the larger joint use area. Students and others should be in one area for reasons of service and economy. Simultaneous or joint use facilities house functions each institution performs that Separate institutional
- that are not assigned to either institution. different times. Examples include the performing arts facility and classroom spaces Coordinated use facilities are used by one or the other institution, separately and at
- other institution. Dedicated facilities or spaces are those provided primarily for the use of one or the

classrooms instead of laboratories competency and media accessibility based in the library, and computer adaptable technology on the new campus that are important to the physical master planning effort. Underlying the space estimates are a number of assumptions regarding the role of The assumptions include the use of distance learning classrooms, information

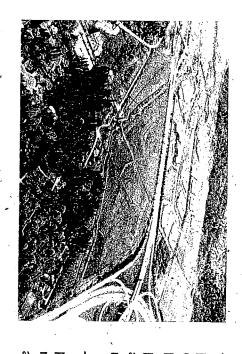
campus (at build-out on peak weekdays) would arrive via transit or carpool. parking demand of 4,200 spaces. management goal of 60% transit/HOV (15% transit, 45% HOV), yields a daytime (approximately 7,400 individuals). visitors coming to the campus on a typical day would be there at one time It is estimated that approximately three-fourths of 9,650 students, faculty, staff, and This means that 60% of the people coming to the The adopted campus transportation demand

evening demand will also be sufficient to meet daytime demand. transportation demand management goal can be achieved, parking provided to meet the rates to reach an estimated demand of 4,200 spaces. Therefore, if the peak daytime The evening parking demand assumes typical peak hour suburban transit and carpooling

with Phase I scheduled for construction in the 1998-1999 time frame. Build-out of the development will be time-phased depending on availability of State construction funding, transit/HOV is not being met, the campus has the physical space to expand on-site determine the amount of parking needed on campus for future phases. The campus, at campus is not anticipated before the year 2010 and may occur over a much longer time future construction phases to accommodate needs as they evolve. One of the major benefits of phasing the campus development is the ability to adjust parking, if needed monitoring shows that the lofty transportation demand management goal for build-out, has the ability to accommodate from 4,200 to 6,600 parking spaces on-site. monitoring of transit and carpooling rates. The results of the monitoring will help frame. Part of the campus transportation demand management program would include The campus

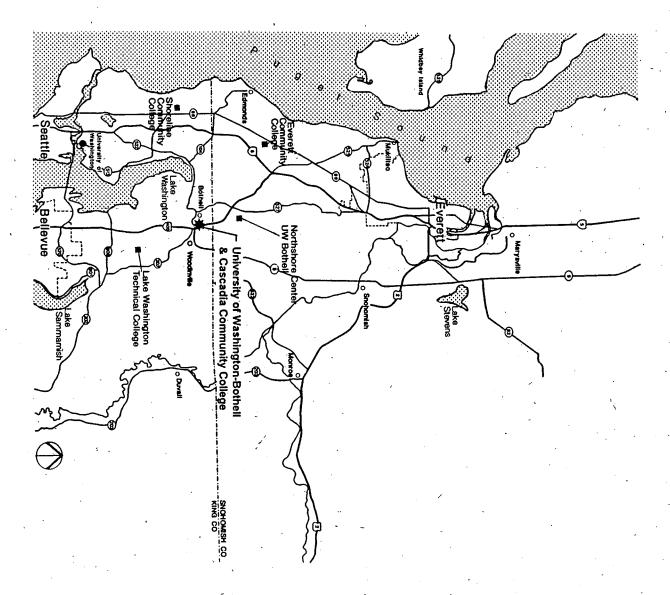
## PARKING DEMAND MANAGEMENT

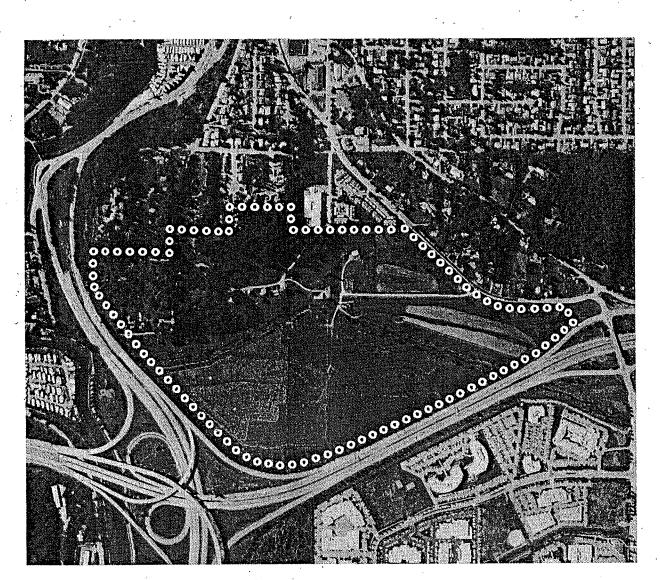
#### SITE CHARACTER



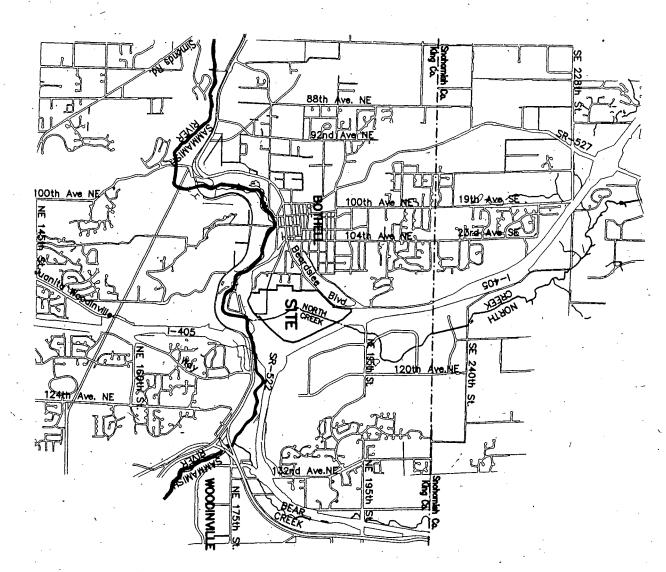
and is mostly undeveloped except for a few structures, including a small commercial nursery, and a gravel access road through the site. portion of the site. The upland area contains mature deciduous and coniferous forest house, farm structures, and related out-buildings are located on the hillside in the central portion of the site consists of pasture where cattle graze, cultivated fields, and North the northwestern quadrant of the I-405/SR 522 interchange in Bothell. The lowland Creek, which flows into the Sammamish River just south of the campus site. The Truly The majority of the 130-acre proposed campus site is currently undeveloped. It lies in

approximately 1/2-mile to the east of downtown Bothell. plateau area of the proposed campus site and consists of either vacant or single-family residential parcels. One residence, the Chase house, is an historic resource. The site lies The collection of parcels commonly referred to as "Stringtown" is located in the upland





Campus Site



#### BOTHELL COMMUNITY CHARACTER/ CONTEXT

Bothell. The sense of place at the campus site on the campus site provides a visual link critical stand of mature second growth forest from the upland hillside to the floodplain. is largely determined by the visual transition between the floodplain and upland area of the floodplain of the North Creek valley. smooth transition from downtown Bothell to upper portion of the campus site provides a Street and N.E. 180th Street. Bothell are potentially feasible via N.E. 185th two major regional pedestrian and bicycle trail and the Sammamish River trail, linking provide the connection of the North Creek site or close by. The campus site is able to planned civic center, the proposed Bothell are available from the campus site. Sammamish River trail are all adjacent to the transit center, Bothell Landing Park, and the Many potential linkages to downtown Bothel Pedestrian connections to downtown The western, The

#### SITE HISTORY

agriculture, and dairy farming were predominant activities. The Stringtown houses were Bramwell Bishop, which included the Truly Farms and Stringtown areas. occurred with the claims patented in 1872-1873 by George Rutter Wilson and William constructed beginning in the late 1800s. the Suquamish, Duwamish, Tulalip, Snoqualmie and Muckleshoot. considered to be part of the Duwamish group. Descendants may have been affiliated with The site area is within the former territory of the Sammamish Indian band, which is Later settlement

#### The Truly Farm

Most of the Truly Farm property has been actively and continuously farmed by a series of who acquired the site in 1962. Boone, who purchased it around 1924, and Richard Truly and the late Beverly Boone Truly, owners including: George R. Wilson, who homesteaded the land in 1870, Benjamin and Lily

the lumber mills on the shores of Lake Washington. conveyance of timber from logging areas upstream to the Sammamish River and, ultimately converted into a log flume. apples, potatoes, and other vegetables as well as cultivated roses. In 1880 North Creek was Wilson logged the old growth timber to finance early investment in the farm, where he grew This flume straightened and ditched the channel for the

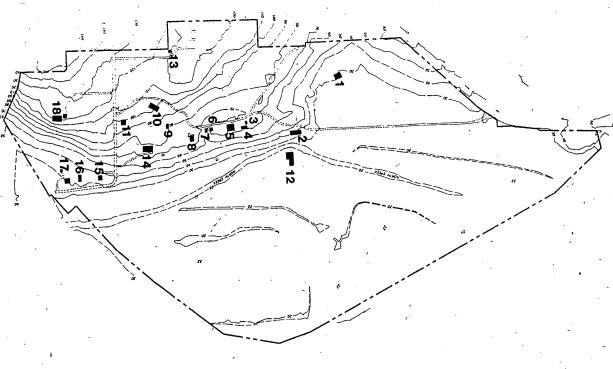
grown, apples picked and the annual round-up was held growing alfalfa, clover and corn for the cattle. As recently as 1993, hay was harvested, corn to the ranch for an old-fashioned rodeo. Boone also built a series of ponds, controlled by the Ellensburg and Pendleton Rodeos. Often Boone would bring his cowboy buddies back 500-acre farm and ranch. Boone raised cattle and was a cowboy at heart, helping organize flood gates, for duck hunting. From 1962 to 1984 the Truly family continued ranching, In 1916 the land was acquired by the Boone family, who joined with neighbors to create a

#### Stringtown

physician, Dr. Rueben Chase. Dr. Chase used his home as both an office and the One of these Stringtown houses is a registered historic structure, the home of Bothell's first The Bothell community's first residential development was known as Stringtown, named for credited with stopping a typhoid epidemic in Bothell. community's first hospital. After serving in the Civil War, Chase moved west. The doctor is River, then called Squak Slough. This was once the only route from Bothell to Woodinville. the string of houses that lined the road leading to the wooden bridge across the Sammamish

## HISTORIC & CULTURAL RESOURCES

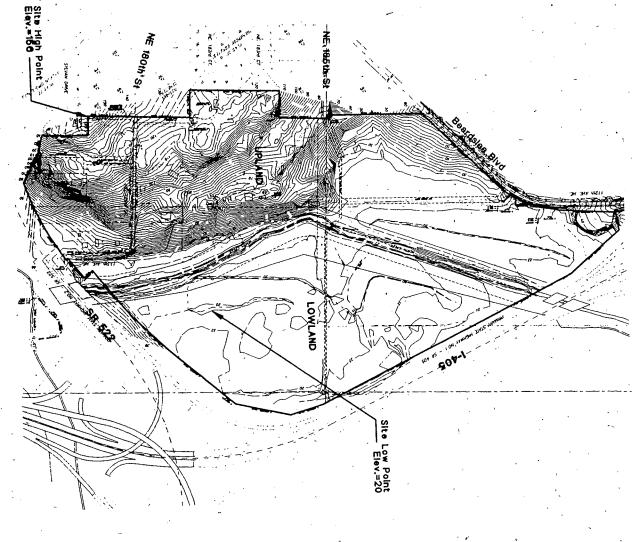
The nearby Bothell Cemetery (108th Avenue and N.E. 180th Street) is listed in the State Register of Historic Places. The City of Bothell has nominated the cemetery for listing in the National Register. Both the Truly Farms homestead and the Chase House will remain on-site in the proposed campus plan.



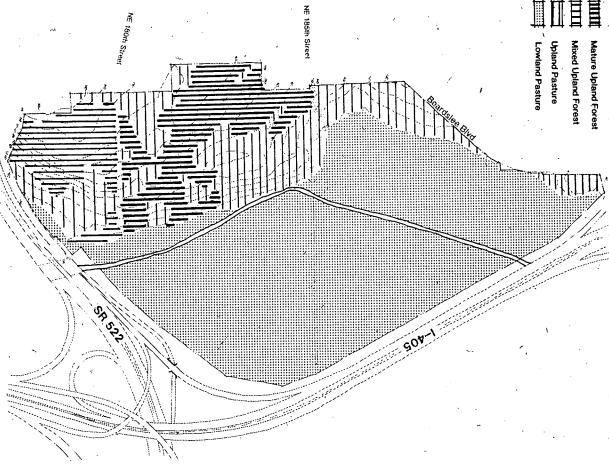
#### gend

- Meat-Packing Business
- Hay Barn
- Root Cellar
- Garage/Wash House
- 5 Main House
- 6 Machine Shop
- 7. Storage ShedB Horse Barn
- Hired Hand House
- Residence (<50 years old)
- Residence (<50 years old)
  2 Cattle Pens
- North Creek Landscaping
- 1 Simulated Log Cabin
- Jamison House
- 1936 House
- Dr. Reuben Chase House
- Residence (<50 years old)

The western portion of the site consists of moderate to steep slopes that are part of a north-south ridge. A broad, flat-floored alluvial valley occupies the eastern and northern areas of the site. North Creek is leveed and straightened, flowing across the site from north to south and discharges to the Sammamish River about 500 feet south of the site. Site elevations range from 20 feet above mean sea level in the valley area to 156 feet above mean sea level near the southwestern portion of the site.



VEGETATION



are primarily forested and are used for grazing, single-family residences. used for grazing and farming, while the hillsides The historic floodplain (below 30 feet) has been farming support structures and activities, and

growth evergreen forest areas. This forest area Province. mature trees in the upland area include red alder sword fern and salal. Other common, but less forest understory species include vine maple consists primarily of Douglas fir, campus site contains significant mature second Heterophylla Forest Zone of the Puget Trough The campus site is located within the Tsuga and black cottonwood. hemlock and Western Red Cedar. The upland portion of the proposed Common Western

The floodplain portion of the site consists mostly annual bluegrass, hedge bindweed, and lady fern. of herbacious species including reed canarygrass, willow, while the most common shrub is Himalayan blackberry The most common tree in the floodplain is Sitka

### GEOTECHNICAL / SOILS

the result of several regional glaciations and subsequent erosion and valley infilling Geologic and topographic conditions within the site and surrounding region are primarily

glacial ice. The till is underlain by a variable thickness of advance outwash that consists of clays with lenses of sand and gravel, are situated beneath the glacial deposits and may be dense, stratified sand and gravel. Older, pre-Vashon sediments, including hard silts and of clay, silt, sand, gravel and occasional cobbles and boulders deposited directly beneath present at the ground surface in locations near the base of the western slopes. The upland slopes comprise a till ridge that extends north from the site. Till is a mixture

alluvium consists of soft peat, organic silt, silt and clay. approximately 100 feet. amounts of silt, and medium-stiff to hard silt with varying amounts of sand to depths of by recessional outwash consisting of medium-dense to very dense sands with varying encountered up to elevation 56 in the southwestern portion of the site. The recent Recent alluvium is encountered in the valley below about elevation 30. Alluvium is also The recent alluvium is underlain

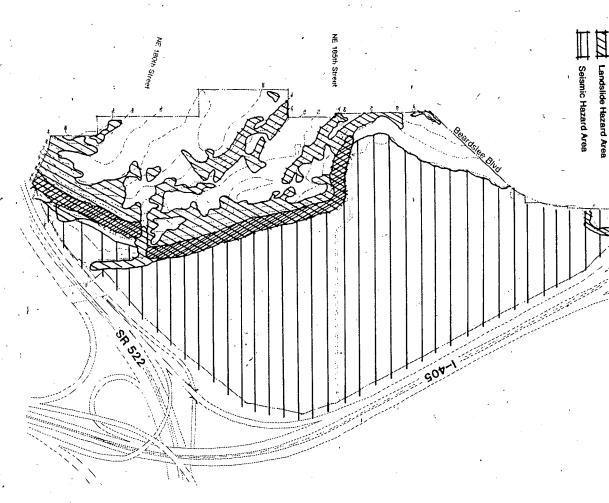
## EROSION, LANDSLIDE & SEISMIC HAZARDS

Erosion Hazard Area

The City of Bothell's regulations define erosion hazard areas as those areas containing soils that, according to the SCS soil classification system, might experience severe to very severe erosion hazard. Soils on the site that meet this definition include the portions of the western slopes that are steeper than 15%. Small areas of slopes greater than 15%, but less than five to six feet in total relief, were not considered erosion hazard areas.

Landslide hazard areas are defined by Bothell's regulations as slopes greater than 15% that are underlain by impermeable soils frequently interbedded with permeable granular soils and that are characterized by springs, seeps, or saturated conditions. The portions of the western slopes that include zones of seepage and saturated soil, generally along the base of the slope, are considered landslide hazards by this definition.

The Puget Sound area is a seismically active region. Seismic hazard areas, with loose sandy soils or a shallow ground water table, include much of the floodplain and portions of the lower slopes in the northern portion of the site. The proposed campus buildings are not located in these areas.

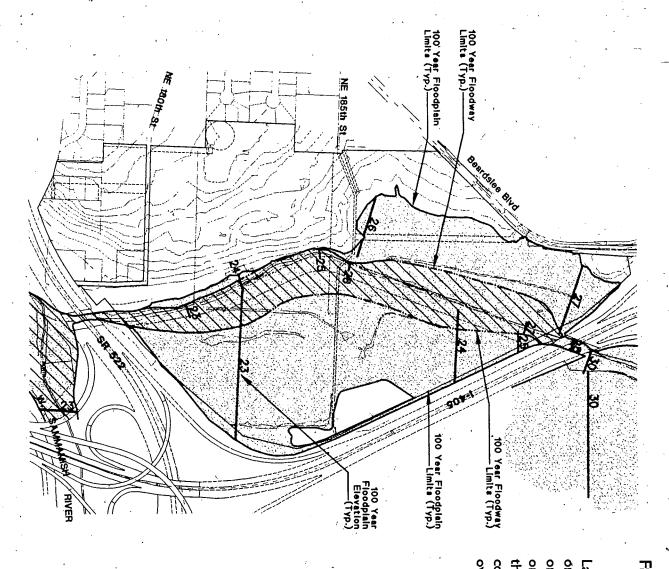


#### GROUND WATER

western slopes between elevation 30 and elevation 40. collect and store the water. Seepage also emerges from a zone along the base of the Street between elevation 60 and elevation 72, where several springhouses are located to Ground water seepage emerges year-round on the western slopes south of N.E. 180th

#### SURFACE WATER

500 feet downstream of the southern boundary of the site. drain to North Creek North Creek discharges into the Sammamish River approximately side of the project site (above elevation 30), and the lowland along North Creek. Existing hillside surface flows are primarily sheet flows from the higher elevations to the lowland. The agricultural lowland includes 6,500 lineal feet of drainage ditches which The project site can be separated into two drainage areas, the hillside, along the west



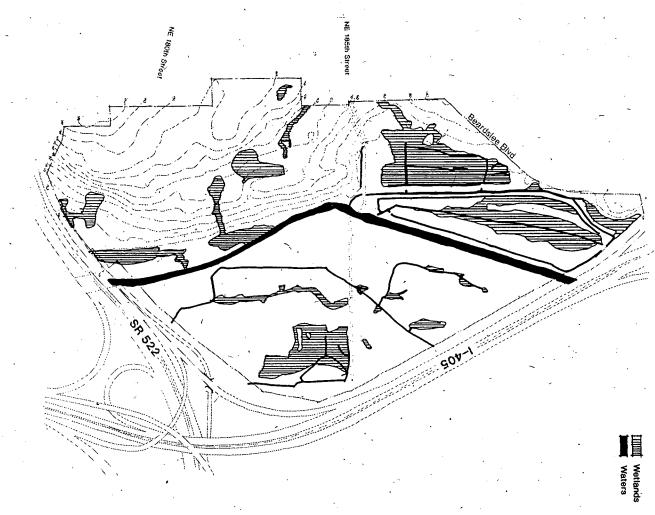
## FLOODING CHARACTERISTICS

Lake Washington and the Sammamish River have only a minor influence over flooding that occurs on the property. In the 1980s levees were raised on the Truly Farms-Stringtown site adjacent to the North Creek channel. Existing flooding conditions include the 100-year floodplain, which overflows the banks of North Creek.

# WETLANDS / WATERS OF THE U.S.

Delineation of waters of the U.S. (according to the technical criteria of the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual), including wetlands, shows that the extent of wetlands/waters is approximately 26.6 acres.

The wetlands on the floodplain are predominantly palustrine emergent persistent marsh. Waters of the U.S. within ordinary high water of North Creek and the agricultural ditches are predominantly riverine unconsolidated bottom. The wetlands on the hillside are predominantly palustrine forested, although palustrine scrubshrub and palustrine emergent persistent marsh are also found on the hillside.



and September with nighttime lows in the 50s and 60s. Rainfall averages one inch per systems lengthen. Daily high temperatures average 70 to 80 degrees during July, August continental air from northern Canada move south over Washington. disturbances over the Pacific Ocean. Daytime temperatures are in the 40s and 50s with month from November through February. Winter snow is minimal (under a foot at sea temperatures may drop to zero during this time. Rainfall averages four to nine inches per nighttime near 30 degrees. Once or twice each winter movements of cold polar month in July and August and two inches per month in May, June, and September. level). During the spring, periods of improved weather associated with high pressure The project area can be characterized as a marine climate, with cool, moist winds from Winter is typically rainy (mid-October to spring) due to marine Daytime

variety of wildlife species In the late 1800s a complex array of wildlife habitat area was available to support a

changes throughout the region. The extensive loss of wildlife habitat reduced or surface waters of the Sammamish River lowered and receded from the site. North eliminated the populations of many wide-ranging species. landscape supports species typically adapted to urban and suburban settings. lowland portion of the site was actively farmed. Creek was channelized and leveed and the site was logged extensively. By the 1930s the Chittenden Locks in Ballard. As Lake Washington waters receded, the elevation of the In 1916 Lake Washington was lowered following the opening of the Hiram M This change in land use mirrored Currently, the regional

portion of the site is disconnected from regional forest patches by ruralization and of these species allows the lowland portion of the site to be used by raptors for hunting urbanization, so it is a small island patch unable to support many of the species typical of Some waterfowl, herptiles, and fish also use the lowland portion of the site. The upland the most common of which are rodents (e.g., mice, voles, and gophers). The presence home ranges forested environments. Species that remain are those that are typically adapted to smal The lowland portion of the site supports a small set of species typical of rural pastures

TABITAT

Birds

during site visits (Summer 1994-Winter 1995), followed by gadwall and Canada geese woodpeckers and raptors. Mallards were the most abundant waterfowl observed The most common birds observed using the site are ducks, geese,

and they may use the site for hunting and/or foraging and as a transportation corridor Mammal species using the site are those adapted to rural and urban environments. In of tree squirrel, chipmunk, raccoon, and porcupine using the site for forage, cover, shrews, and ground squirrels all use the site for forage, cover, mating, and nesting throughout the year. the site. Songbirds were observed using pastures as well as trees and blackberry patches mating, and nesting purposes. Additionally, urban environments commonly support purposes. Coyote and blacktail deer are occasionally observed in urban environments the lowland pasture the most common mammal species are rodents. Mice, hares, voles, observing bald eagles and barn owls; however, no raptor nests have been observed on the open pastures on the proposed project site. Local residents have reported months. Raptors (red-tailed hawks, northern harriers and American kestrels) hunt over During the fall and winter, waterfowl numbers are significantly higher than summer populations of feral dogs and cats, and it is likely that the site is used by such mammals. The forested uplands and waters/wetlands of the hillside support additional populations

. Fish

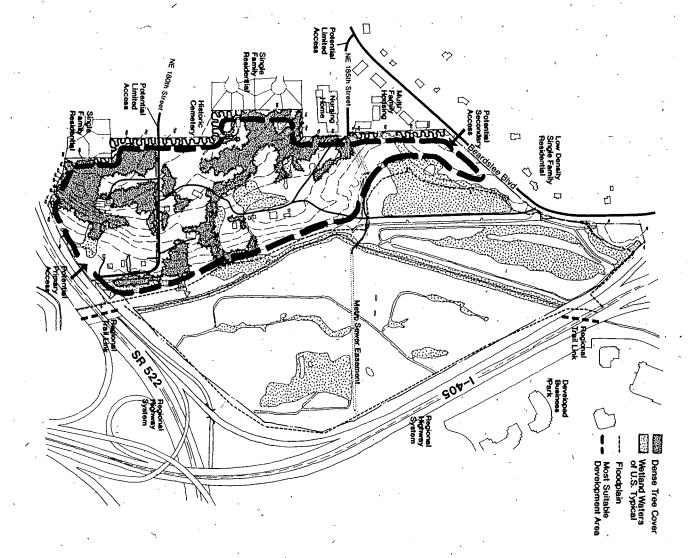
spawning areas upstream and for out-migrating juveniles and smolts. River. Coho and chinook are the principal salmon species; while sockeye salmon is also resident rainbow trout. North Creek primarily serves as a corridor for migration to migratory and resident coastal cutthroat trout also use the stream, as do steelhead and records of spawning within the proposed project area, only upstream. listed, these are probably kokanee, the non-anadromous form of sockeye salmon. Both North Creek is an important salmonid producing tributary on the lower Sammamish There are no

endangered species on or in the vicinity of the proposed project site. Local residents no confirmation of site utilization by bald eagles for hunting and/or roosting. have reported seeing bald eagles in the proposed project area; however, there has been The Washington Department of Fish and Wildlife report no records of threatened or

Threatened and Endangered Species

# **OPPORTUNITIES & CONSTRAINTS**

The east facing hillside is the most suitable area for development. This area contains potential amenities such as the mature grove of evergreen trees, while avoiding the majority of wetlands and floodplain areas.



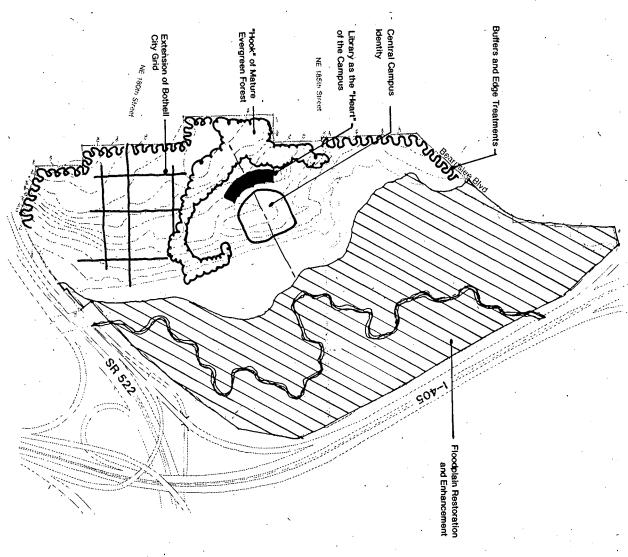
Campus Master Plan

### PREFERRED CAMPUS FORM

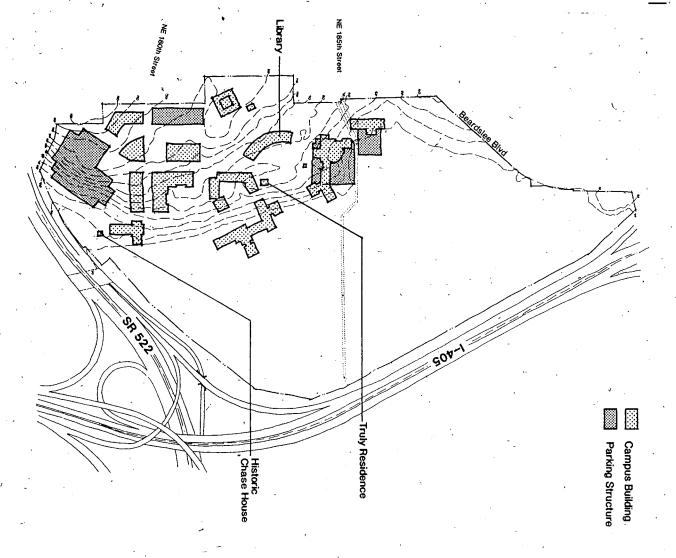
One of the primary issues for a collocated campus is the identity of each institution and how it should be expressed.

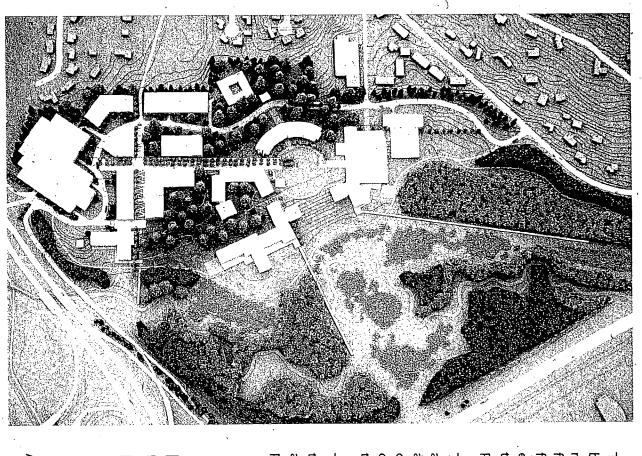
- Should each institution have a separate, distinct identity, from the identity of the other institution?
- Should both institutions share an equal, common identity on the campus?

The preferred campus form represented both institutions equally and drew key characteristics from a series of initial alternatives.



- Create one sense of place with a central campus identity and assure a balanced treatment of each institution's identity.
- The library should be the heart of campus, prominently placed at the center.
- Combine the geometry of the community street system with the topography of the site. The grid of Bothell should extend into the site, wrapping around the hillside as it steps down toward the lowlands.
- Reinforce and strengthen the natural features of the site by retaining critical stands of mature trees and returning North Creek to its floodplain.
- Provide places for informal interaction between students, faculty and staff.
- Create an "approachable atmosphere," which is particularly important to adult, returning or new-to-higher-education students.
- Provide clarity in wayfinding and security in campus circulation.
- Assure parking convenience. Concentrate the parking on the south portion of the site to separate people from their cars as soon as they enter the site. Explore pedestrian options from the parking areas to the campus.





#### CAMPUS MASTER PLAN

The defining image of the campus is the interface between the built campus environment and the restored floodplain. The lower campus buildings form the urban edge of Bothell as its pushes out from the hillside above. The "hook" of mature evergreen forest is the visual connection between the upland and the lowland, adding a sense of permanence to the campus.

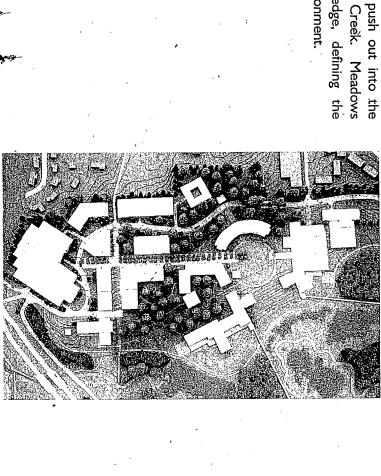
The clear orientation of buildings, open spaces, and circulation helps make the campus an approachable, welcoming, and understandable collegiate atmosphere. Architecturally prominent campus features, such as the library building, help to provide familiarity on the campus site.

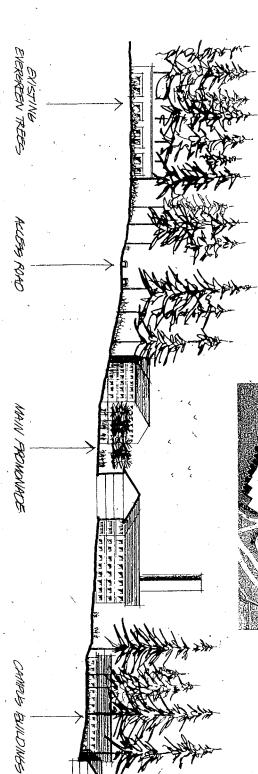
The main access to the campus is from SR 522 at the south portion of the site. Secondary campus access is from Beardslee Boulevard at the north portion of the site.



Main site access from SR 522

The lower campus buildings push out into the restored floodplain of North Creek. Meadows frame this lower campus edge, defining the interface with the natural environment.

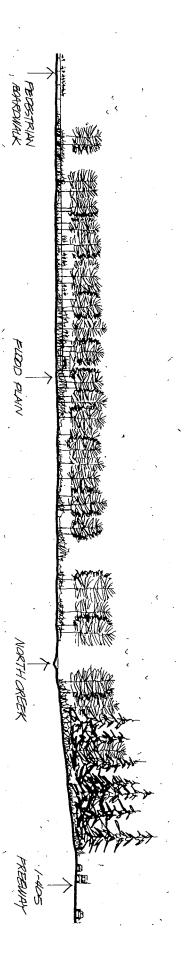




Full site section through campus site looking north

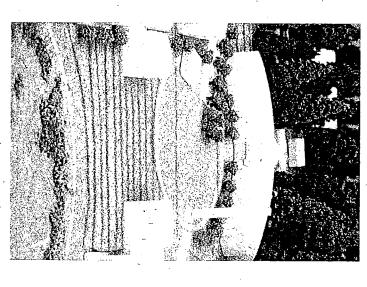
Aerial view looking southeast

Aerial view looking northwest

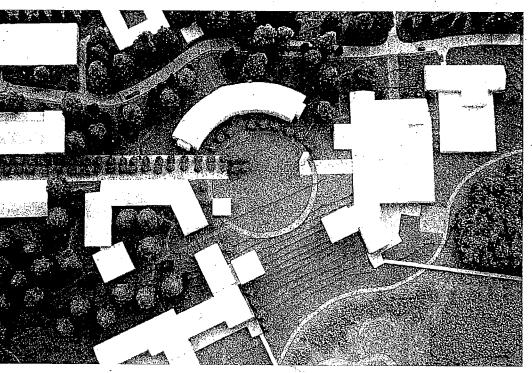


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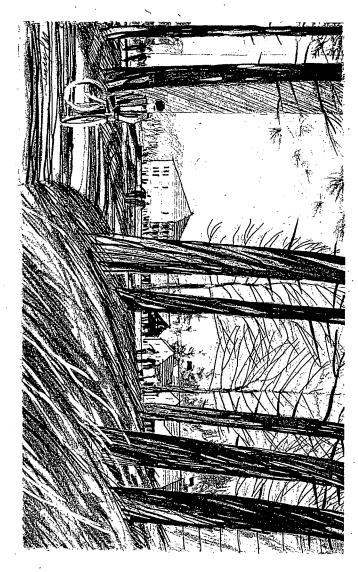
The focus of the built campus form is the green bounded by the most architecturally prominent buildings on the campus, and a backdrop of mature evergreen forest. These buildings give separate but equal billing to each of the institutions.



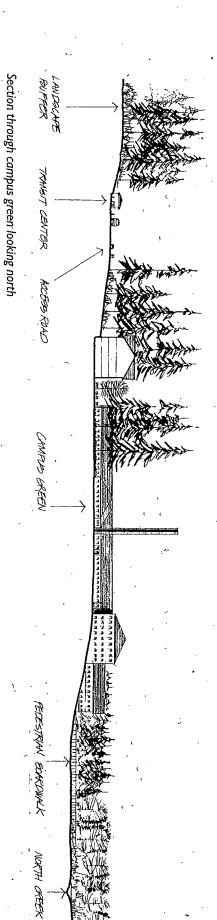
The campus green backed by the library



Prominent campus buildings will be arranged around the campus green in a pedestrian-friendly environment



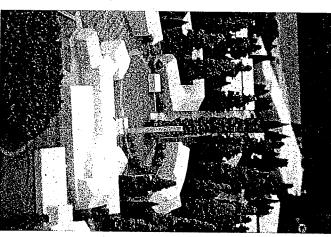
Approaching the campus green from the northwest



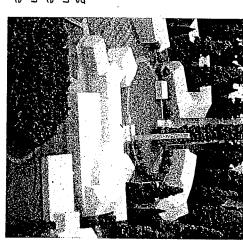
wayfinding on campus. Two formal pedestrian promenades allow campus clear building "addresses" to assist in

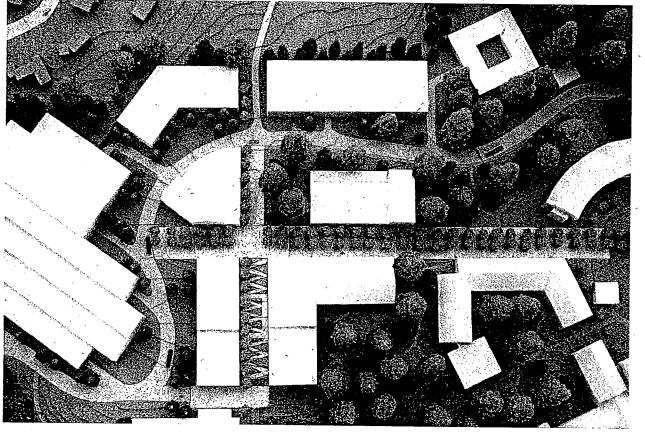
parking zone. the formal pedestrian promenade is the major buildings front onto it. pedestrian promenade. This promenade is the "main street" of the campus and several of campus The campus green is the terminus of a formal The southern terminus of

will be well lighted. buildings fronting onto the paths. Pedestrian paths corridors will be well traveled and viewed from the two main pedestrian corridors. Safety and security on campus are enhanced by These

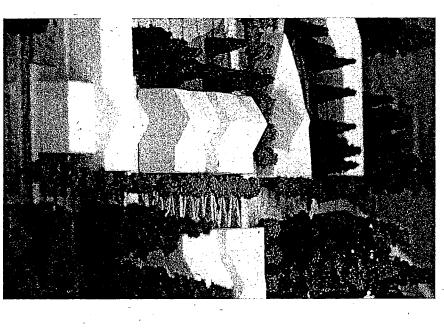


promenade pedestrian down the Looking south



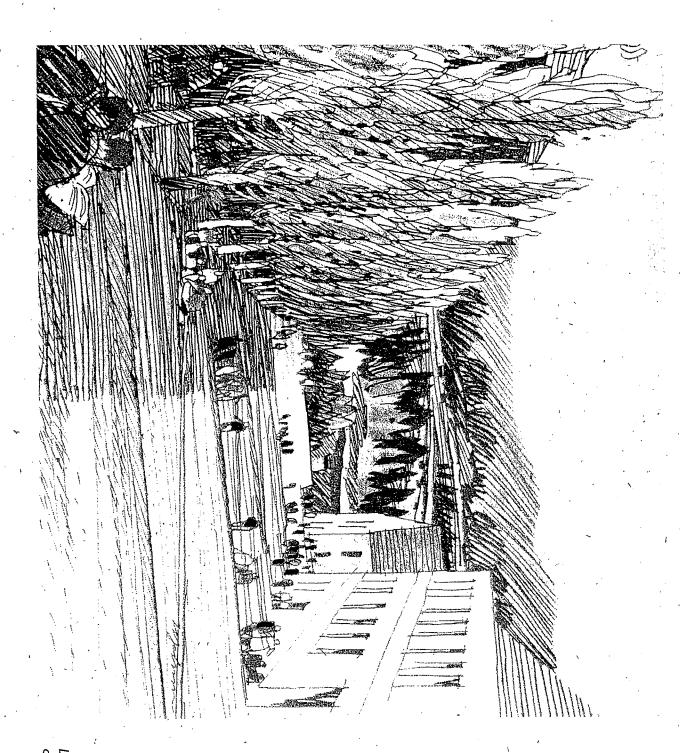


campus green zone with the campus parking connects the promenade The pedestrian



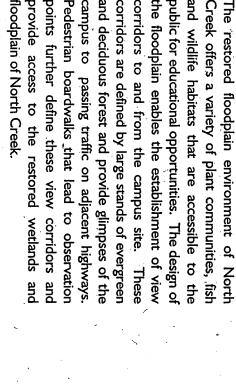
Aerial view looking west up the garden street

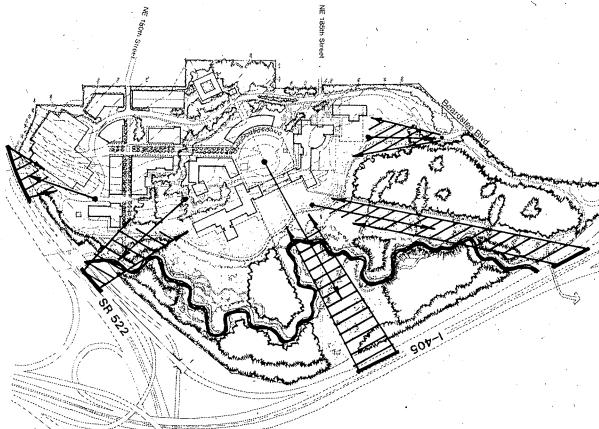
Running perpendicular to the main pedestrian promenade is the garden street. The garden street provides pedestrian access from the pedestrian/bicycle entrance at N.E. 180th Street down to the floodplain and regional trail access.



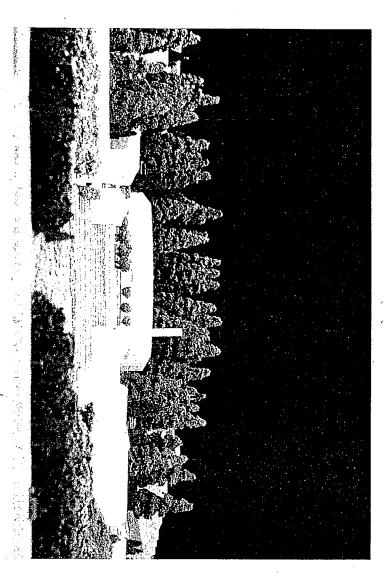
Looking to the east down the garden street

provide access to the restored wetlands and points further define these view corridors and and deciduous forest and provide glimpses of the corridors are defined by large stands of evergreen corridors to and from the campus site. These the floodplain enables the establishment of view public for educational opportunities. The design of and wildlife habitats that are accessible to the floodplain of North Creek. Pedestrian boardwalks that lead to observation campus to passing traffic on adjacent highways. Creek offers a variety of plant communities, fish





to and from the campus View corridors



View of Jibrary and campus green from 1-405



Pedestrian boardwalks from campus buildings provide access to the restored floodplain environment and accent the view corridors

A series of informal paths also links buildings and open spaces throughout the campus, offering campus pedestrians an option to get to their destination. A hierarchy of open spaces is positioned throughout the upland campus.



Informal pédestrian paths meander through prèserved evergreen forest areas

significant buffering, helps protect the historic cemetery west of the site. existing Truly farmhouse. Access for only pedestrians and bicycles along 180th, plus Two significant existing structures are being retained: the historic Chase house and the

provide easy access through the campus site. to the Sammamish River Trail to the south and the North Creek Trail to the north adjacent residential area to facilitate convenient community access. Direct connections Facilities such as day care, recreation, arts, and transit access could be located near the

visual screening and added privacy. In buffer areas without significant existing vegetation buffer areas with existing forest canopy in place, understory planting will be added for in place, understory and overstory plantings will be added. Significant landscape buffering will be included along the west campus boundary.

### FIT WITH THE COMMUNITY



Extensive understory landscape buffering along the west campus boundary helps preserve adjacent uses.

#### DESIGN GUIDELINES

#### Architectural Character

- The library building is the focal building on the campus: 4-5 stories in height it fronts onto the campus green, between the two identity buildings for each institution.
- campus green. These buildings should be of equal size, scale, height and consist of similar but not necessarily the same materials. The identity for each institution should be expressed in buildings fronting onto the
- buildings fronting onto the campus green. Windows and overhead protection should be included in the ground level of all
- promenade. and should include windows and overhead protection in the ground level facing the Campus buildings that front onto one of the promenades should have no setback,
- buildings. height and be compatible in material composition to the library and identity The remaining campus buildings should be designed to a human scale: 2-4 stories in
- of the significant student population at the campus in early and late hours of the day. All campus building entries should be clearly signed and well lighted, in consideration
- All campus building forms should respond to the site topography: buildings that parallel the site topography and cross contour buildings
- parameters of regulatory approvals (404, PUD, Shoreline, etc.) Campus buildings should be sited in accordance with the Master Plan and the
- significant existing tree clusters. Campus buildings should be sited to preserve and enhance view corridors and

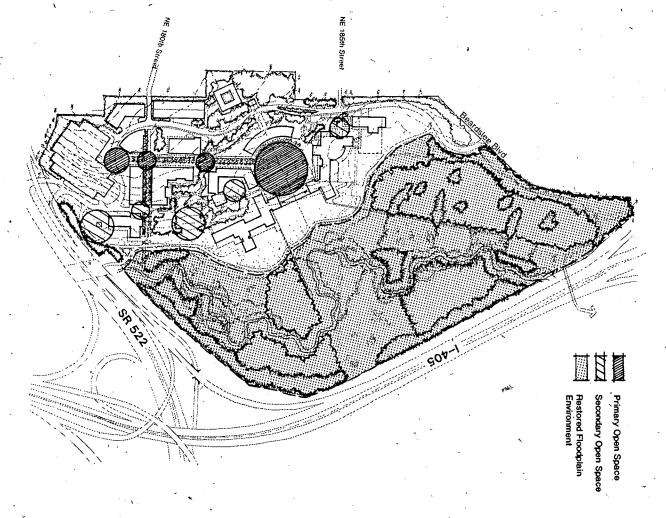
- Building spaces should be designed to access daylight.
- mechanical equipment and be designed with uphill views in mind. Roof forms should be consistent in form, material, pitch, type and conceal
- prevailing winds and views. Buildings should be designed to use energy efficiently and create comfortable conditions for its occupants. Consider factors such as orientation to sunlight,
- Blank walls without facade ornamentation should be vegetatively screened from
- concrete, etc.). Use building materials that suggest permanence and dignity, appropriate for the region (e.g., brick, masonry, glass, tile, stone, wood, architectural CMU, pre-cast
- When future phases are added to the campus, use materials, colors, and massing to
- Uninterrupted glass curtain walls and mirrored glass should not be permitted

complement adjacent buildings and the campus as a whole.

Building Treatment Materials

The hierarchy of open space ranges from the vast, restored floodplain environment to the smaller, more intimate spaces that help define the campus environment. Primary campus open spaces are located along the main promenade. Secondary spaces can be found between buildings, at openings in the evergreen forest, and at the primary site access.

- Design and furnish open spaces in a manner appropriate to their importance in the hierarchy and function.
- The most important open space will be the Campus Green; the size and scale of the campus green should remain as designated in the Master Plan.
- The major campus promenade running northsouth connecting the parking area to the campus green should be 70 feet wide.
- The secondary campus promenade running eastwest should be 60 feet wide
- Connect open spaces with a network of pedestrian pathways and pave all "desired pathways."
- All parts of the campus should be accessible according to ADA standards.
- The pedestrian boardwalks should utilize natural materials. Lighting on the boardwalks should only occur as required for safety.



Hierarchy of open space

an amenity to the campus. clustering campus buildings in areas adjacent to significant tree stands, the trees become The campus Master Plan utilizes existing trees as a significant campus open space. By

avoiding placement of buildings, structures, impervious surfaces and rough grading within trees worth saving. the dripline of existing trees; and field staking of campus elements to avoid significant Tree preservation techniques should include, but not be limited to: retaining walls;

and presence along the freeway frontage Buffers and edge treatments will separate and protect the campus from adjoining residential areas, preserve and enhance significant vegetation, and create a campus image

- Existing significant vegetation should be maintained in a natural state, where possible
- Additional vegetation should be installed as needed to screen the campus from adjacent sensitive uses.
- Roads and paths through buffer areas are discouraged

Tree Preservation

Buffers and Edge Treatments

- Use low maintenance and environmentally sensitive design.
- Preserve and enhance the mature grove of evergreen trees.
- Select durable site furnishings constructed of vandal resistant materials. Secure all site furnishings.
- future expansion. Design irrigation systems to provide adequate water pressure and to accommodate
- Use native plants adjacent to natural areas, no lawns.
- Avoid plants with messy seed pods, leaves and aggressive root systems near roadways, trails and paths.
- Maintain accurate records of all trees planted and provide permanent markers on specimen plants.

## Campus Roadway/Pedestrian Paths

- Use consistent materials throughout the hierarchy of the circulation system: i.e.,
   roads -- asphalt; formal promenade walkways -- concrete; informal paths -- asphalt.
   Use consistent concrete finishes.
- Roadway overhead lighting: maximum height of 45 feet.
- Promenade lighting: maximum height of 15 feet.
- Informal path lighting: utilize bollard and ground lighting; no uplighting.

Natural Environment & Restoration Plan

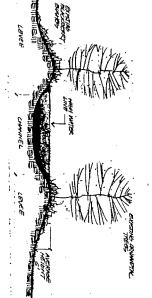
Prior to 1916, when Lake Washington was lowered 9-11 feet following the opening of the Hiram M. Chittenden Locks in Ballard, the valley floor was submerged for extended periods of time. This resulted in the deposit of considerable organic material (6 to 20 feet in depth) and is visible today as a mosaic of stream associated wetlands, peat bogs and flood plain. Historically, the valley floor was most likely covered with majestic species such as hemlock and fir.

Another result of submergence of the valley floor was the meandering of North Creek and the Sammamish River. In the 1880s, however, a log flume straightened and ditched the creek for the conveyance of timber from logging areas to the north to the Sammamish River and, ultimately, the lumber mills on the shores of Lake Washington. The North Creek channel is in that same location today.

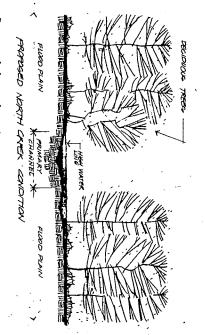
North Creek runs approximately 12 miles from its source near Silver Lake to the point where it flows into the Sammamish River at the southern end of the Truly Farms-Stringtown site; its watershed encompasses approximately 30 square miles. The position of the campus site in the North Creek system is unique. All of the watershed conditions upstream from the Truly Farms-Stringtown site come to bear at the confluence with the Sammamish River. Land use changes upstream will affect the stream as it flows through the Truly Farms-Stringtown site. Documentation indicates a gradual increase in the mean flow of the creek due to the effects of increased urbanization upstream in the watershed.

The preferred campus form does not require the relocation of North Creek. It was unclear, however, if wetland impacts due to campus development, approximately 6-7 acres, could be mitigated on-site. By returning North Creek to its floodplain and associated wetlands, wetland mitigation can be accomplished on-site.

#### NORTH CREEK FACTS



Existing channel



Proposed channel .

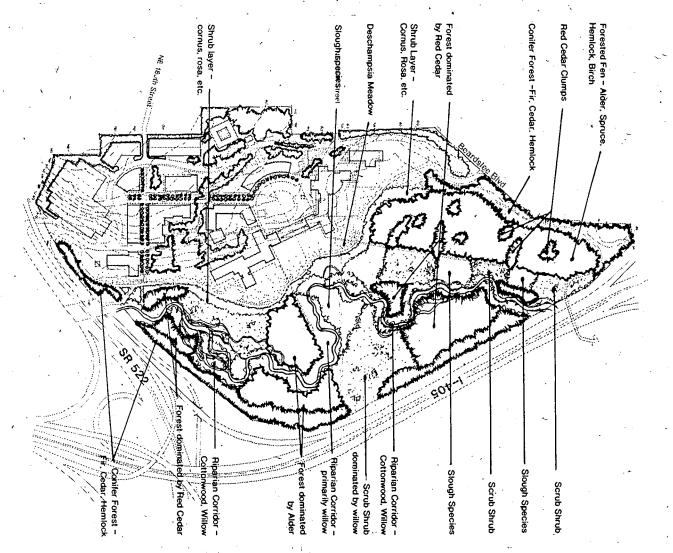
# Environmental Restoration/Enhancement

The environmental restoration and enhancement call for returning North Creek to its floodplain and associated riverine wetland system. This includes approximately 58 acres of the lowland portion of the site. North Creek would be re-meandered across the lowland through a mosaic of wetlands typically found in the Puget Sound Basin and that biologically make sense for this site. The following table summarizes the different types of proposed wetlands:

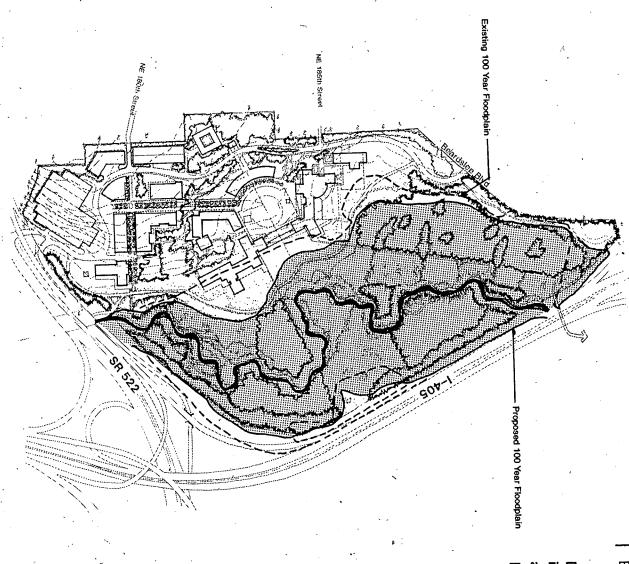
## **Proposed Wetland Communities**

Wetland Community Type	Approximate Area (acres)
Conifer Forest	10.0
Forested Fen	9.7
Red Cedar Patches	1.5
Scrub/Shrub Peatland	6.1
Floodplain Scrub/Shrub	11.0
Riparian Corridor	12.0
Deschampsia Meadow	3.2
North Creek	3.5
Oxbow/Riparian Forest	1.0
Total	58.0

Proposed floodplain restoration and enhancement plan



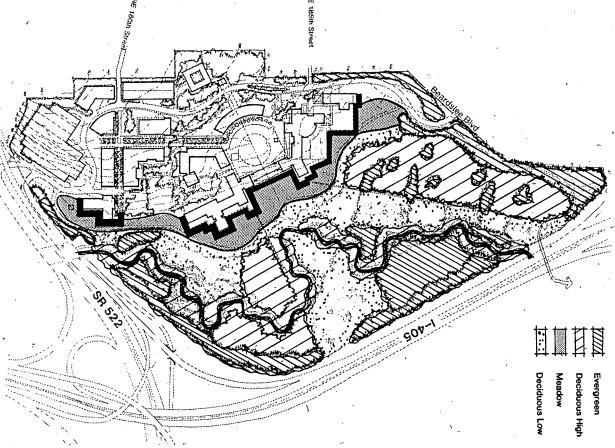
During periods of high stream flow, North Creek is designed to spread out across its floodplain and associated wetlands, reducing stream velocity and providing flood storage.

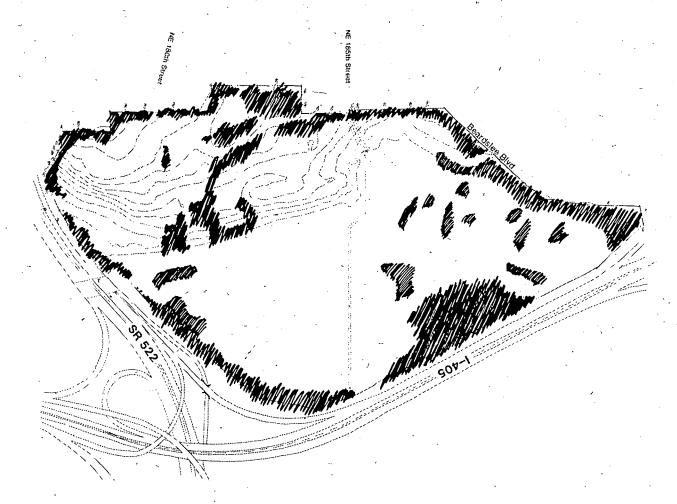


The Deschampsia Meadow is the landscape zone that forms the lower edge of the campus. The lower campus buildings push out from the hillside into a meadow of 2-4 foot high grasses. The meadow transitions up the slope to merge with campus open space.

View corridors to and from the campus are preserved and framed by taller deciduous and evergreen plantings on each side.

The "hard" edge of the hillside campus meets the restored floodplain





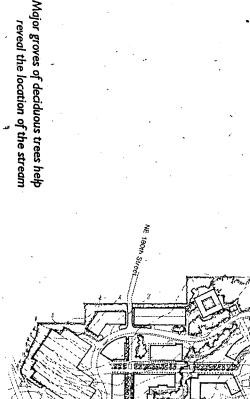
Evergreen buffers and edges, predominantly around the site perimeter help to screen the campus from adjacent transportation corridors. Sensitive adjacent uses, such as single family residential areas and the Bothell Historic Cemetery, are preserved through the use of evergreen buffering.

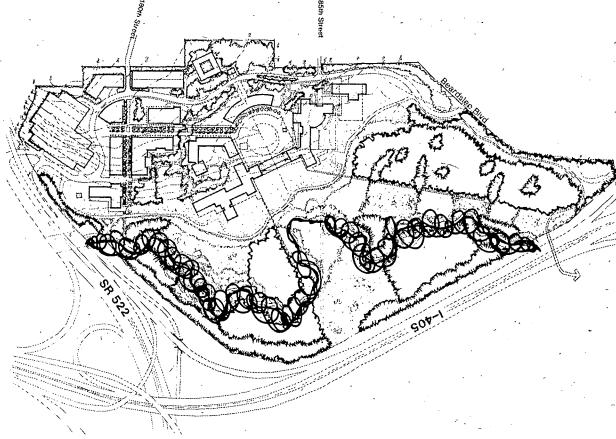
Evergreen vegetation along perimeter of site connects with existing upland forest

The stream channel in the restored floodplain is called out by a riparian corridor consisting of Cottonwoods and Willows. This corridor will emphasize the stream channel location through the seasons: yellow fall color, no winter foliage, green spring and summer foliage.

A new channel will be constructed with meanders and in-stream and floodplain habitats that would provide for additional spawning, rearing, and refuge areas. This will result in floodplain areas that will allow for the dispersion of high flows (reducing stream velocities), reduced sedimentation (increasing water quality), and increased flood storage. Floodplain areas would allow the establishment of large woody vegetation that would help reduce elevated water temperatures without a reduction in flood capacity.

After the system is established, maintenance costs should be minimal.





channel length is approximately 3,500 feet in length. The relocated stream channel is water contact area the adjacent floodplain and wetlands. opportunities to dissipate stream energy. Increased channel length also increases the above a certain flow level proposed to be 4,600 feet long, with approximately 1,500 feet of secondary/side channel length. Secondary/side channels may only have water in them when the main channel is Increasing the length of the stream channel reduces the slope of the stream and provides The existing North Creek

Stream Channel Characteristics

erosion. Long term flood storage provides sediment retention and habitat for amphibians and Reduced water velocity during high flows helps to minimize channel and bank

Flood Storage

Department of Ecology (DOE) Standard for streams of this size. The relocated stream temperatures recorded in North Creek in recent years that exceed the Washington State would likely meet State (DOE) standards Native species (e.g., salmon and trout) require cool water temperatures. Elevated water

Water Temperature

matter quality and quantity. quantity of organic matter, the relocated stream is anticipated to have high organic Organic matter is the basis for all food webs. The existing stream has low quality and

Plant Communities

changing environmental conditions. High diversity of species is achieved by the relocated stream will have eleven North Creek. The existing stream system has four plant communities; the relocated Species diversity contributes to greater system resilience and capacity to adapt to

amphibians, small mammals, and migratory waterfowl. provide shade and stream temperature control, food production, refuge habitat for habitat for amphibians, wading birds and migratory waterfowl. In-channel pools are critical fish habitat during low flows. Floodplain pools are critica Riparian corridors

and provides roughness and diversity to floodplain surfaces. these habitat types are incorporated in the restored stream/floodplain environment. food and cover resources for a broad range of amphibians, birds and mammals. protection of adult resident and juvenile fish during floods. Woody debris creates in-stream and wetland habitat, reduces in-stream water velocities Terrestrial refugia provide Aquatic refugia provide <u>A</u>ll of

except for a few structures, including a small commercial nursery, and a gravel access upland area, contains mature deciduous and coniferous forest and is mostly undeveloped related out-buildings are located on the hillside in the central portion of the site. where cattle graze, cultivated fields, and North Creek. North Creek flows into the 405/SR 522 interchange in Bothell. The lowland portion of the site consists of pasture, road through the site Sammamish River just south of the campus site. The campus site is currently undeveloped. It lies in the northwestern quadrant of the I-The Truly house, farm structures, and

approximately 0.5 miles to the east of downtown Bothell. plateau area of the proposed campus site, and consist of either vacant or single family residential parcels. One residence, the Chase house, is a historic resource. The site lies The collection of parcels commonly referred to as "Stringtown" is located in the upland

## REGULATORY ENVIRONMENT

Federal

The following permits and/or approvals will likely be required:

- Corps of Engineers (COE), 404 Individual Permit
- Federal Emergency Management Agency (FEMA), Conditional Letter of Map Revision (CLOMR)
- Department of Ecology (DOE) and Fisheries, Hydraulics Project Approval (HPA)
- DOE (SEPA EIS & Water Quality Certification)

  Department of Natural Resources (DNR), Forest Clearing Permit
- Planned Unit Development (PUD)
- Shoreline Substantial Development and Shoreline Conditional Use Permit (also reviewed by DOE)
- Certificate of Zoning Compliance
- Critical Areas Alteration Permit
- Any other necessary permits or approvals to construct and operate the campus that may be required and will be sought by the proponent

State

City of Bothell

Access & Circulation

SR 522 only. enters the site via a new access road. Eastbound SR 522 access to and from the campus site access points would be prominent gateways to the campus. The new south access surrounding intersections prevent primary access to the campus from the north. Both Beardslee Boulevard. Current and projected traffic volumes on Beardslee Boulevard and point is designed so that westbound SR 522 traffic does not stop at the campus, but is accommodated with a grade separation access ramp and traffic signal for eastbound The primary vehicular site access point is from SR 522; secondary site access is from

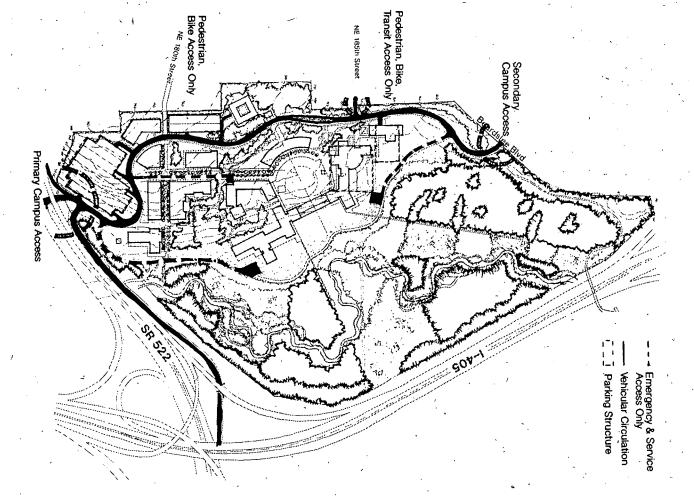
bicycle access only. vehicles, pedestrians and bicycles. N.E. 180th Street would provide pedestrian and N.E. 185th Street would only provide access for transit, emergency and maintenance

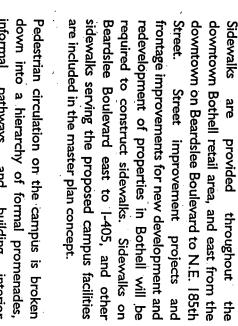
Regional access to the campus is provided by 1-405 and SR 522. Through the Bothell area, 1-405 provides connections to 1-5 and Snohomish County to the north and to Kirkland, Redmond, and the Eastside south of the campus. 1-405 has a full interchange with SR 522, and with SR 527 in the Canyon Park ("Technology Corridor") area. West of the campus SR 522 provides access to north Seattle, Shoreline, and 1-5; east of the campus SR 522 extends to Woodinville and Monroe.

Beardslee Boulevard is the only arterial that currently provides access to the campus itself. Beardslee connects to Main Street downtown, which is not well suited for carrying traffic between the SR 522/SR 527 intersection and Beardslee Boulevard and the campus.

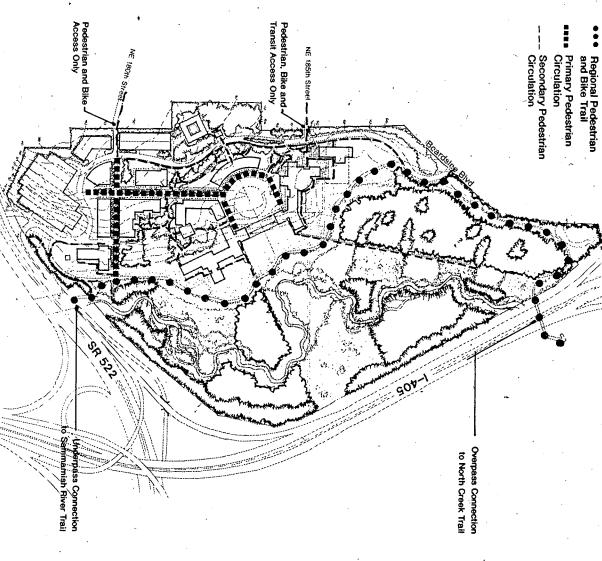
Several major planning and project development efforts affecting the campus area are underway or recently competed.

- The I-405 HOV Lanes Project, Bothell -Swamp Creek
- The I-405 Multi-Modal Corridor Study
- The I-405 and SR 522 elements of the Puget Sound HOV System Predesign Studies
  The SR 527 Corridor Development Plan
- The SR 527/SR 522/ Main Street Intersection Improvement Project (Bothell)





provided by elevated boardwalks. spaces on campus. and provide access to some of the more quiet to the restored floodplain pedestrians from the weather. arcades and canopies also building elevators. free access up and down the hillside by accessing circulation system provides a means for barrier spaces. Informal pathways are more meandering axes of the campus and connect major uses and circulation. The formal promenades are major informal pathways, Building features such as and The interior building building Pedestrian access help to shelter environment is interior



#### I RAIL ACCESS

Sammamish. east of I-405. The Sammamish River Trail provides regional connections for bicyclists, Sammamish River Trail, along SR 522, and the North Creek Trail, along North Creek pedestrians and equestrians. Union, and south along the Sammamish Slough to Redmond, Marymoor Park, and Lake Kenmore, Lake Forest Park, and the University of Washington main campus to Lake There are two Class I pedestrian/bicycle paths in the vicinity of the proposed campus: the The Trail extends west along Lake Washington through

will tie directly into the regional bicycle trails. Class II bicycle lanes can be found along connect the Sammamish River Trail to Canyon Park and north. The proposed campus portions of SR 527, North Creek Parkway, 100th Avenue N.E., and 104th Avenue N.E. Only a short segment of the North Creek Trail currently exists, but eventually it will

### MAINTENANCE/SERVICE ACCESS

and allow open access to fire vehicles. service/delivery access to buildings. buildings for service and in case of emergency. The fire access lane may also function for lane. The primary access road is meant to be the most traveled, and the includes primary vehicular access road, the central campus promenade and the regional trail/fire maintenance and service; however, it is intended to function primarily as a regional trai Maintenance and service access is available via three "roads," from west to east: the The promenade provides vehicular access to

split is the goal; this would dramatically reduce campus generated traffic. evolve. Part of the campus transportation demand management program would include generated by the new campus. development is the ability to adjust future construction to accommodate needs as they monitoring of transit and carpooling rates. Achievement of 60% transit/carpool mode Several mitigation measures are recommended to minimize the impacts of traffic One of the major benefits of phasing the campus

Travel demand management components could include:

- Transit fare and vanpool subsidies
- Transit service increases
- Evening and midday shuttle service to downtown Bothell and surrounding neighborhoods and business areas
- Priority parking and reduced parking fees for carpools and vanpools
- Ridematch program
- Program monitoring/evaluation
- Information/marketing program

6,600 spaces. transit, carpooling, or alternative forms of transportation. The parking demand for the campus, at build-out, is estimated to be between 4,200 and This is based on the range of expected numbers of people using public

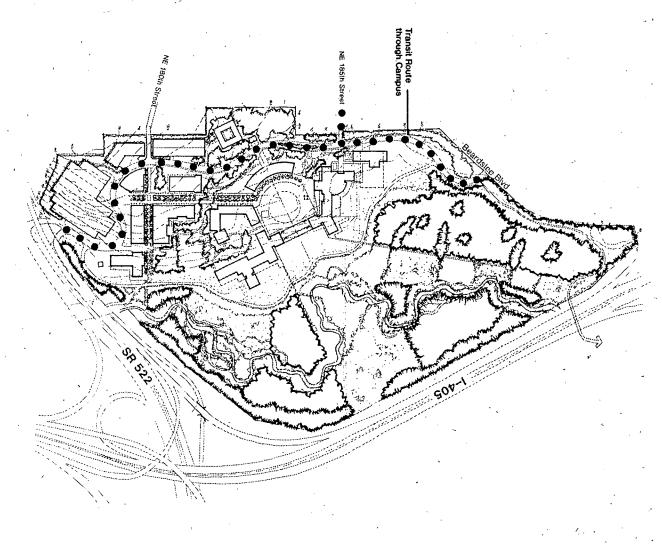
should be accommodated on campus. 'In order to ease parking impacts on the surrounding neighborhood, all campus parking and/or a residential parking zone around the campus should be implemented to prevent campus-related parking on neighborhood streets. It is recommended that parking restrictions

All of the parking proposed for the campus will be accommodated in parking structures

# TRANSPORTATION MANAGEMENT PLAN

**PARKING FACILITIES** 

The proposed campus is in a location served by both Metro Transit, serving King County, and Community Transit (CT), serving Snohomish County. Two of the 12 bus routes that run through Bothell operate on Beardslee Boulevard, and four of the other routes stop at the Bothell Park-and-Ride, relatively close to the campus. One route stops on N.E. 195th Street in the North Creek area.



Future transit service in Bothell includes

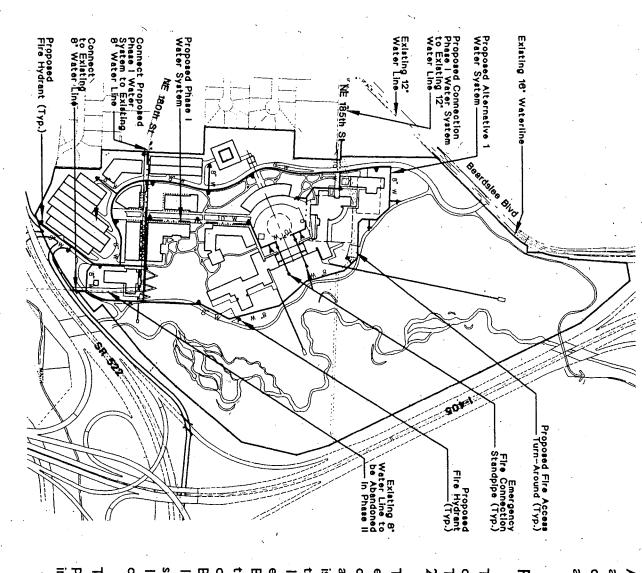
- A new transit center, potentially located in downtown Bothel
- Express service via I-405 to Canyon Park, Bellevue, Southcenter and SeaTac
- All-day fixed-route service to Totem Lake and Kirkland, Canyon Park, Kenmore, Lake Forest Park, and Aurora Village, Lake City and Northgate, and Bothel neighborhoods and Woodinville
- Access to regional rail service at 145th Street/I-5 and Totem Lake

service that should be established in the Snohomish County Public Transit Benefit Area updating its 2001 Comprehensive Plan. complement the regional transit system plan. (PTBA) for the next 5-year period. The updated Comprehensive Plan will be designed to Community Transit currently is preparing its 1995 Transit Development Plan (TDP) and updating its 2001 Comprehensive Plan. The TDP will assess the levels and types of

at approximately the same location as previously mentioned overpass. downtown Bothell. Another option would place a HOV only site access point from 1-405 Boulevard N.E. 195th and provide a direct connection to the North Creek valley from across I-405 approximately midway between the I-405/SR 522 interchange and the N.E. the development of the Campus Master Plan. One of the options is a new overpass Special effort has been made to avoid precluding several future transportation options in 195th interchange. This new connection would help relieve congestion on Beardslee

should it be included in future phases. effort has been made to avoid precluding rapid rail transit service to the campus site trunk service, and no commuter rail or rapid rail to the vicinity of the campus site. Every regional trunk bus service (via SR 522), Edmonds-Lynnwood-I-405-Bellevue regional bus Phase One of the Regional Transit System proposes Northgate-Bothell-Woodinville

Utilities



All utilities including water, sewer, gas, electric and telephone are available at the site, and have or will have capacity for expansion in order to accommodate the proposed campus,

#### PUBLIC WATER SERVICE

The water supply for the City of Bothell is obtained from the City of Seattle via the Seattle Tolt River pipeline. The campus is located in the 284 pressure zone in Bothell.

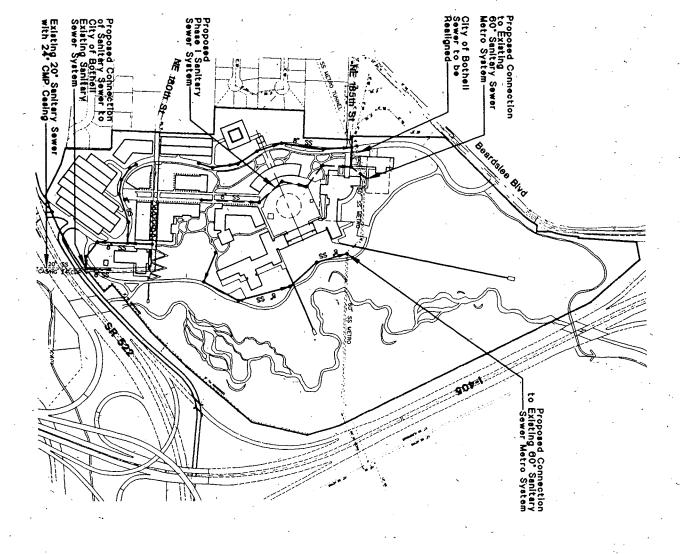
of the campus west boundary. secondary campus entrance. There is another Beardslee Boulevard, which increases in size to a campus, including a 12-inch diameter main in the streets adjacent to the west side of the Bothell water service system has mains located in existing single family dwellings. The City of the south, under SR 522. There is approximately is "looped" through the site with a connection to and 113th Avenue N.E. The existing 8-inch main distribution system is located in N.E. 180th Street existing service to the site. The City of Bothell public water system provides 12-inch main in N.E. 185th Street within 320 feet 16-inch diameter main near the 1,420 feet of 8-inch main on-site serving the On-site, the water proposed

There is adequate water supply to meet the proposed campus build-out water demand, including fire flows.

### PUBLIC SANITARY SEWER SERVICE

The project has existing public sanitary sewer system lines on-site, although they are currently unused. Metro has an existing trunkline that bisects the site in an east-west direction. The City of Bothell has two sewer lines on-site. One line ties into the Metro trunk at about 300 feet into the site from the west boundary. The second City sewer line is located at the southern end of the site that was taken out of service when the City abandoned a pump station east of 1-405 and rerouted that service. It is, however, available for use for this project.

The Metro trunkline and the existing City of Bothell sewer both have adequate capacity for the proposed flows. The proposed location of the campus buildings would require the realignment of the existing City of Bothell sewer on-site. The Metro West Point Treatment plant is undergoing capacity expansion and treatment improvements. It will be able to accommodate the proposed campus, with continued excess capacity.



adequate electricity service to the campus site, although existing distribution lines would with existing energy use rates. Puget Power does not anticipate any problems providing energy use on campus at final build-out may actually be lower than currently estimated better technology and more modern building design techniques. companies to the site. Electricity is provided to the area by the Puget Sound Power and need to be improved. Light Company. Puget Power reports that energy use rates are steadily decreasing with Electricity and natural gas are the primary sources of energy supplied by local utility It is expected that

that adequate natural gas service could be provided to the site to meet the estimated loads with improvements to existing distribution lines. Natural gas is provided by the Washington Natural Gas Company (WNG). WNG reports

likely have its own gas-fired heating plant. telecommunications center would also be located there. Each campus building would through an electrically-powered, centralized, chilled water plant located at the Physical Plant building. heating system located at the Physical Plant could occur in the future, if needed. It is envisioned that, at full build-out of the campus, air cooling would be provided The emergency power generating system and potentially the campus The development of a centralized steam

#### COMMUNICATIONS SERVICES

communication option, since no off-site network would be required for operation. services to the area. carriers are also available to serve the site. Viacom Cablevision provides cable television way, adjacent to the site. These lines include capabilities for every type of service that campus development would be for initial service connection. All major long distance GTE currently offers, including fiber optic, high capacity, Integrated Services Digital materials necessary to install entrance cables. The only cost to be incurred by the Network (ISDN) and fiber ring services. No charges are anticipated for the labor and Northwest Region. Service lines currently exist within the Beardslee Boulevard right-of-The campus is anticipated to be wired for state-of-the-art educational technology Telephone service to the site is available through GTE Telephone Operations, Satellite systems would also be available to the site as a

existing services. Communication systems developed on-site would be configured to the campus, GTE and Viacom anticipate that adequate levels of service could be meet the UWB/CCC's administrative and educational needs. provided to the campus for Phase I and at build-out without significant impact on Although demand for telephone and cable services would increase with development of

Catch Basin (Typ.)

NE 185th St

Biofiltration

enhole (Typ.)

Biofiltration Area

ME TROTT ST

High Point

(Typ.) Vault

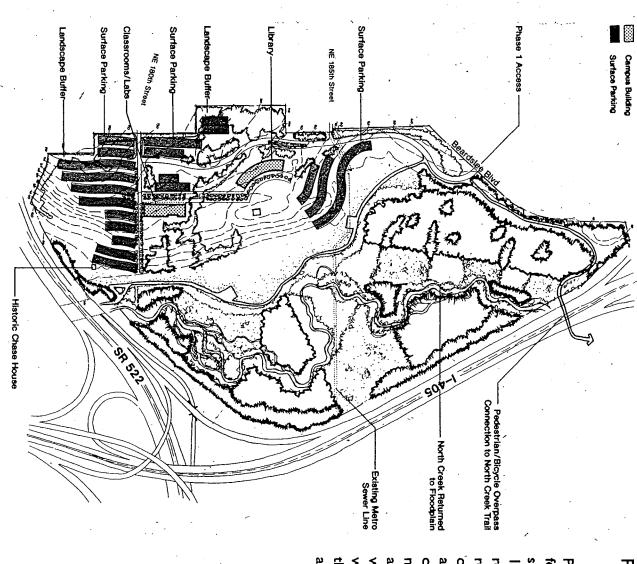
Coalescing Plate

eparator

## STORM WATER & DRAINAGE PLAN

rainfall storm event at build-out conditions. oil/water separator and biofiltration capabilities water quality control facility would include an being discharged to the creek floodplain. The through a water quality control facility before collected by a catch basin/pipe system and routed runoff from roadways and parking areas would be wetland/creek floodplain. would be piped and discharged separately to the a dual system. Roof runoff and groundwater running off impervious structures. This would be mechanisms would collect and clarify waters A storm water system with water quality control This would be designed for an annual 24-hour control ០ minimize measures The surface water erosion would during

Phasing



areas with the promenade and campus buildings. the informal path system would also link parking with a portion of the campus green. Portions of would anchor each end of the promenade along also be constructed. The two campus buildings north-south formal pedestrian promenade would are proposed for this phase: completed in this phase. Two campus buildings returning North Creek to its floodplain, would be restoration and enhancement, which includes surface parking spaces on the site by the year classroom/laboratory building. A portion of the 1999. feet of campus buildings and approximately 1,300 Phase I proposes approximately 214,000 square The full program of environment the library and a

Total	Classroom/Lab Building Library	<i>Space Туре</i>
214,000	45,700 168,300	Approximate Gross Square Feet
19%	.4% <u>15%</u>	% of Build-out Space

the Phase I connection to the Sammamish River Trail and the North Creek Trail. Site access would be from Beardslee Boulevard to the north. New traffic signals would be bridge over North Creek. The proposed connection to the North Creek Trail is made Connection to the Sammamish River Trail would occur by passing under the existing SR 522 buildings would be built. Pedestrian and bicycle access to the campus is greatly enhanced by Surface parking would be located in areas where future parking structures and/or campus part of this new access along Beardslee. The south access is planned for future phases. possible by the construction of a new overpass across 1-405 from the campus.

Major portions of the landscape buffer would be implemented in Phase I established screen for later phases. to provide an

#### FUTURE PHASES

development timeframe for future phases is subject to future legislative appropriations. Full build-out of the campus is not anticipated any earlier than the year 2010.